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S1	28	"4199013"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 11:11
S2	7	gantry and storage and vertical near rack	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 11:46
S3	438	gantry and wafers	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 11:54
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S5	2	gantry and wafer\$2 near testing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 11:59
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S12	647	gantry same vertical same horizontal same movement\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 12:26
S13	9	gantry same vertical same horizontal same movement\$2 and storage near rack	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 12:26
S14	4099	382/133,141-142,153,182,183,218,224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 14:55
S15	2045	141/1,129,130.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/19 15:26
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21 [Session P11: visualization systems and image-based visualization: Sea of images](#)

 Daniel G. Aliaga, Thomas Funkhouser, Dimah Yanovsky, Ingrid Carlbom
 October 2002 **Proceedings of the conference on Visualization '02**

Full text available: pdf(12.25 MB)

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A long-standing research problem in computer graphics is to reproduce the visual experience of walking through a large photorealistic environment interactively. On one hand, traditional geometry-based rendering systems fall short of simulating the visual realism of a complex environment. On the other hand, image-based rendering systems have to date been unable to capture and store a sampled representation of a large environment with complex lighting and visibility effects. In this paper, we prese ...

Keywords: capture, image-based rendering, interactive, reconstruction, walkthrough

22 [Modeling of a manufacturing cell using a graphical simulation system based on Smalltalk-80](#)

 Timothy Thomasma, Onur M. Ulgren
 December 1987 **Proceedings of the 19th conference on Winter simulation**

Full text available: pdf(669.71 KB)

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A simulation model of a manufacturing cell is constructed in order to test the accuracy of an analysis of the cell done without simulation. The analysis does a good job of ranking alternative designs according to throughput, but overestimates the throughput by about fifteen percent. The model is built using a simulation system written in Smalltalk-80 that features icon-based programming and animation. The experience of using the simulation system to build this particular model is described. ...

23 [Simulation and production planning for manufacturing cells](#)

 Shahram Taj, David S. Cochran, James W. Duda, Jochen Linck
 December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(56.71 KB)


 Additional Information: [full citation](#), [references](#), [index terms](#)

24

[A flexible interface and architecture for container and intermodal freight simulations](#)

Beth C. Kulick, James T. Sawyer

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**

Full text available:  pdf(54.20 KB) Additional Information: [full citation](#), [index terms](#)

25 A data-driven reflectance model

Wojciech Matusik, Hanspeter Pfister, Matt Brand, Leonard McMillan

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Full text available:  pdf(38.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a generative model for isotropic bidirectional reflectance distribution functions (BRDFs) based on acquired reflectance data. Instead of using analytical reflectance models, we represent each BRDF as a dense set of measurements. This allows us to interpolate and extrapolate in the space of acquired BRDFs to create new BRDFs. We treat each acquired BRDF as a single high-dimensional vector taken from a space of all possible BRDFs. We apply both linear (subspace) and non-linear (manifold ...

Keywords: BRDF, image-based modeling, light reflection models, photometric measurements, reflectance

26 ProModel tutorial

Charles R. Harrell, Ken Tumay


December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available:  pdf(563.41 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

27 Three dimensional computer graphics for craniofacial surgical planning and evaluation

Michael W. Vannier, Jeffrey L. Marsh, James O. Warren

July 1983 **ACM SIGGRAPH Computer Graphics , Proceedings of the 10th annual conference on Computer graphics and interactive techniques**, Volume 17 Issue 3.

Full text available:  pdf(2.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The understanding of complex craniofacial deformities has been aided by high resolution computed tomography. Nonetheless, the planar format limits spatial comprehension. Reconstruction of fully three-dimensional bony and soft tissue surfaces from high resolution CT scans has been accomplished by a level slicing edge detector coupled to a hidden surface processor without perspective depth transformation. This method has clarified aberrant anatomy, facilitated surgical planning and improved q ...

28 Session C1: volume rendering: Christmas tree case study: computed tomography as a tool for mastering complex real world objects with applications in computer graphics

Armin Kanitsar, Thomas Theußl, Lukas Mroz, Milos Srámek, Anna Vilanova Bartolí, Balázs Csébfalvi, Jiri Hladuvka, Dominik Fleischmann, Michael Knapp, Rainer Wegenkittl, Petr Felkel, Stefan Röttger, Stefan Guthe, Werner Purgathofer, Meister Eduard Gröller

October 2002 **Proceedings of the conference on Visualization '02**

Full text available:  pdf(2.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We report on using computed tomography (CT) as a model acquisition tool for complex objects in computer graphics. Unlike other modeling and scanning techniques the complexity of the object is irrelevant in CT, which naturally enables to model objects with, for example, concavities, holes, twists or fine surface details. Once the data is scanned, one



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R Cirio, E Garelli, R Schulte, S Amerio, A Boriano ... - Physics in Medicine and Biology, 2004 - iop.org
 ... 1 display per second, data **storage** can be ... with one **horizontal** and one **vertical** chamber,
 once ... the beam-shaping multileaf collimator during the **gantry movement**. ...
 Cited by 1 - [Web Search](#) - iop.org - [adsabs.harvard.edu](#) - [ncbi.nlm.nih.gov](#)

Model based, sensor directed remediation of underground **storage** tanks

B Christensen, W Drotning, S Thunborg, RW Harrigan - Journal of Robotic Systems, 1992 - ieeexplore.ieee.org
 ... The **gantry** robot controller and sensors are interfaced to the ... used for the cleanup
 of underground **storage** tanks will ... and known obstacles such as **vertical** pipes ...
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A head motion measurement system suitable for emission computed tomography

SR Goldstein, ME Daube-Witherspoon, MV Green, A ... - IEEE Transactions on Medical Imaging, 1997 - ieeexplore.ieee.org
 ... s, coordinate computations, and data recording and **storage** are all ... the inner bore
 of the **gantry**), while allowing ... turned on and off, the **vertical** and **horizontal** ...
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BA Gunnarson - ieeexplore.ieee.org
 ... system is the port's responsibility, while the **storage** ... The exact positions of the
 unloader's **vertical** and **horizontal** boom as well as the **gantry** are monitored ...
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ROBOCRANE AND EMMA APPLIED TO WASTE **STORAGE** TANK REMEDIATION

RV Bostelman, JS Albus, RE Graham - Proc. American Nuclear Society Seventh Topical Meeting on ..., 1997 - isd.mel.nist.gov
 ... RoboCrane cables form small angles with the **vertical**. ... Hinged joints in the **gantry**
 allow the RoboCrane to ... the RoboCrane Straddling a Waste **Storage** Tank Reaching ...
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3D virtual and physical simulation of automated container terminal and analysis of impact on in land ...

B Khoshnevis, A Asef-Vaziri - 2000 - metrans.org
 ... Moves of the **gantry** crane are combinations of ... 6.2 **Storage** and Retrieval Machine ...
 velocities of ASRS machine **Movement Horizontal Vertical** Optimistic Pessimistic ...
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 ... platforms were also used for the **vertical** shaft instead ... this work without the help
 of the **gantry** crane. ... PUMPED-STORAGE STATION FEASIBILITY STUDY ON THE BASIS ...
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A Structured Approach to Material Handling System Selection and Specification for Manufacturing

G Sharp, YT Wan, LF McGinnis, M Goetschalckx, D ... - factory.isye.gatech.edu
... c. Cranes, including bridge crane, **gantry** crane, jib ... free, **horizontal** travel
only/**vertical** travel, position ... g. **Storage**/retrieval devices, including unit load ...
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S-IC STAGE TRANSPORTING AND HANDLING

A ADmNISTR'I'TIOH97114 - ntrs.nasa.gov
... protection prior to stage **movement** are contained ... utilization of S-IC booster **storage**
building are ... barge unloading, transportation to **Vertical** Assembly Building ...
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Experience in constructing The Zagorsk pumped-storage station

VM Plotnikov, AA Bykadorov - Hydrotechnical Construction, 1994 - springerlink.com
... gallery is deepened 12 m below the dead **storage** level. ... dimensions of the gates -
7.5 7.5 m; **gantry** crane with a ... slope: 1:6, 1:1, 2, 5. **Vertical** relief drainage ...
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[Lab Safety Supply - EZ Facts Safety Info - Document #107, Overhead ...](#)

... **gantry**, semi-**gantry**, cantilever **gantry**, **storage** bridge and wall cranes. ... **Horizontal movement** must also begin slowly to prevent the load from swinging ...
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GlobalSpec offers a variety of **gantry** crane for engineers and through SpecSearch the ... equipment involving hoisting or **horizontal movement** of a load. ...
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Focused primarily on **vertical movement**, lifting vehicles are a very ... The three dimensional travel consists of **horizontal movement** along the length of the ...
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Used to **move** bulk materials in a **vertical** or inclined path ... Single-carrier, single-track monorail similar to bridge or **gantry** crane ...
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 the **moving**, handling, and storing of materials. Whether. **moving** materials manually or ... with **vertical** only (or **vertical** and **horizontal**) controls ...
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These equipment systems include **horizontal** and **vertical** carousels, ... of these technologies allows the precise **movement** of goods in and out of **storage**. ...
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It has two shelf blocks with one operating **gantry** crane **moving** in the center ... pick light

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systems, **horizontal** carousels and **vertical-storage** devices. ...

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movement within the **gantry**. 8. Specify speed of **vertical movement** ... mechanisms in the **vertical** direction. 12. In the **horizontal** direction. ...

www.cancercare.mb.ca/MedPhysics/ip_pdfs/CT_technicalQuestionnaire_0704.pdf -

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Gantry crane. A fixed or traveling bent-supported crane for handling heavy equipment. ...

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